# **Refine Search**

#### Search Results -

Terms	Documents
L3 and traveling adj salesman adj problem	17

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database US OCR Full-Text Database

Database:

EPO Abstracts Database
JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

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### **Search History**

DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
DB=PGP	B, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=1	NO; OP = OR	
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

## **Hit List**

# Clear Cenerate Collection Print Fwd Refs Bkwd Refs Cenerate OACS

**Search Results** - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20040044633 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 17

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044633

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044633 A1

TITLE: System and method for solving an optimization problem using a neural-

network-based genetic algorithm technique

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Chen, Thomas W.

Ft. Collins

CO

US

US-CL-CURRENT: 706/13; 706/21, 706/25

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

□ 2. Document ID: US 20030093391 A1

L4: Entry 2 of 17

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Shackleford, J. Barry

Portola Valley

CA

US

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 20030084011 A1

L4: Entry 3 of 17

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Shetty, Ravindra K.

Bangalore

IN

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw, De

☐ 4. Document ID: US 20010037346 A1

L4: Entry 4 of 17

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037346

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010037346 A1

TITLE: Extensible markup language genetic algorithm

PUBLICATION-DATE: November 1, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY R

RULE-47

Johnson, Judith A.

Lawrenceville

NJ

US

US-CL-CURRENT: 715/513; 706/13, 707/104.1, 715/514, 715/522

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

□ 5. Document ID: US 6490566 B1

L4: Entry 5 of 17

File: USPT

Dec 3, 2002

US-PAT-NO: 6490566

DOCUMENT-IDENTIFIER: US 6490566 B1

TITLE: Graph-based schedule builder for tightly constrained scheduling problems

DATE-ISSUED: December 3, 2002

Record List Display Page 3 of 8

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Schmidt; Craig W.

Somerville

MA

US-CL-CURRENT: 705/8; 700/100, 700/104, 705/9, 706/13, 706/62

Full Title Citation Front Review Classification Date Reference Section Attachments Claims KWC Draw, D.

☐ 6. Document ID: US 6477519 B1

L4: Entry 6 of 17

File: USPT

Nov 5, 2002

US-PAT-NO: 6477519

DOCUMENT-IDENTIFIER: US 6477519 B1

TITLE: Cellular array for implementing the set merging function

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Shackleford; J. Barry

Portola Valley

CA

US-CL-CURRENT: 706/45; 706/13, 716/2, 716/9

Full Title Citation Front Review Classification Date Reference Sequences Patternments Claims KMC Draw.De

7. Document ID: US 6363368 B1

L4: Entry 7 of 17

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well

as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Shinagawa; Akio

Kawasaki

JP.

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Citation Claims KMC Draw. De

□ 8. Document ID: US 6185547 B1

Record List Display

L4: Entry 8 of 17

File: USPT

Feb 6, 2001

US-PAT-NO: 6185547

DOCUMENT-IDENTIFIER: US 6185547 B1

TITLE: Fitness function circuit

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Shackleford; J. Barry Tokyo JP Okushi; Etsuko Tokyo JΡ Yasuda; Mitsuhiro Tokyo JΡ Iwamoto; Takashi Tokyo JΡ

US-CL-CURRENT: 706/13; 706/45, 707/1, 707/102, 707/6

Full Title Citatio	n Front Review	Classification   Date	Reference	en er es etternoens	Claims	KWC Dr	aw. De

#### ☐ 9. Document ID: US 6052678 A

L4: Entry 9 of 17

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

\*\* See image for Certificate of Correction \*\*

TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Itoh; Hiroyasu Kawasaki JΡ Shinagawa; Akio Kawasaki JΡ Nishimura; Toshihiro Kawasaki JΡ Okada; Hiroyuki Kawasaki JΡ Adachi; Nobue Kawasaki JΡ Ohi; Hajime Tokyo JΡ

US-CL-CURRENT: <u>706/13</u>; <u>706/20</u>, <u>706/45</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	350 3160	Constitution of	Claims	KWIC	Draw, De
										0.001	110010	) DISW. D.

☐ 10. Document ID: US 5970487 A

L4: Entry 10 of 17

File: USPT

Oct 19, 1999

Record List Display Page 5 of 8

US-PAT-NO: 5970487

DOCUMENT-IDENTIFIER: US 5970487 A

TITLE: Genetic algorithm machine and its production method, and method for

executing a genetic algorithm

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Shackleford; J. Barry Tokyo JP Okushi; Etsuko Tokyo JP Yasuda; Mitsuhiro Tokyo JΡ Iwamoto; Takashi Tokyo JΡ

US-CL-CURRENT: 707/6; 706/13, 706/45, 707/1, 707/102

Full Title	Citation	Front	Review	Classification	Date	Reference	41.57	Claims	KMC	Draw, De

### ☐ 11. Document ID: US 5848402 A

L4: Entry 11 of 17

File: USPT

Dec 8, 1998

US-PAT-NO: 5848402

DOCUMENT-IDENTIFIER: US 5848402 A

TITLE: Universal system for artificial intelligence based learning, categorization,

and optimization

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Pao; Yoh-Han Cleveland Heights OH Yip; Pui-Chiu Euclid OH

US-CL-CURRENT: 706/13; 706/14

Full   Title	Citation Front	Review	Classification	Date	Reference		Claims	KWIC	Draw, De
□ 12.	Document ID	: US 5	819244 A		·	·····			<del></del>
L4: Entry	12 of 17				File:	USPT	Oct	6,	1998

US-PAT-NO: 5819244

DOCUMENT-IDENTIFIER: US 5819244 A

TITLE: Adaptive computing systems, computer readable memories and processes employing hyperlinear chromosomes

Record List Display Page 6 of 8

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Smith; Brian L.

Sunnyvale

CA

US-CL-CURRENT: 706/13; 706/10, 706/14

ĺ	Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWC	Draw, De
											***************************************	***************************************

☐ 13. Document ID: US 5651098 A

L4: Entry 13 of 17

File: USPT

Jul 22, 1997

US-PAT-NO: 5651098

DOCUMENT-IDENTIFIER: US 5651098 A

TITLE: Planning method and system

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inoue; Haruki	Katsuta			JP
Mizutani; Mayumi	Hitachi			JP
Yoshida; Hideo	Takahagi			JP
Onizawa; Hitoshi	Hitachi			JP
Nakamura; Kenichi	Hitachiota			JP
Hamaguchi; Yukio	Hitachi			JP
Shiozawa; Masami	Hitachi			JP

US-CL-CURRENT: 706/13; 703/1, 706/922, 716/1

	Full	Title	Citation	Front	Review	Classification	Date	Reference	i Nemices	Claims	KWIC	Draw, De	
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T-COMMON	······································			WWW.andiaston.com						 			
		14.	Docum	ent ID	: US 5	581657 A							
	L4: Ē	ntry	14 of	17				File:	USPT	 Dec	3,	1996	

US-PAT-NO: 5581657

DOCUMENT-IDENTIFIER: US 5581657 A

TITLE: System for integrating multiple genetic algorithm applications

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lyon; Bruce C. Victor NY

Record List Display Page 7 of 8

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sections Attachinents Claims KMC Draw De

☐ 15. Document ID: US 5255345 A

L4: Entry 15 of 17

File: USPT

Oct 19, 1993

US-PAT-NO: 5255345

DOCUMENT-IDENTIFIER: US 5255345 A

\*\* See image for Certificate of Correction \*\*

TITLE: Genetic algorithm

DATE-ISSUED: October 19, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Shaefer; Craiq G.

Charlestown

MA

Full Title Citation Front Review Classification Date Reference Security 25 Attachments Claims KMC Draw De

US-CL-CURRENT: 706/13

L4: Entry 16 of 17

File: USPT

Jun 22, 1993

US-PAT-NO: 5222192

DOCUMENT-IDENTIFIER: US 5222192 A

☐ 16. Document ID: US 5222192 A

TITLE: Optimization techniques using genetic algorithms

DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Shaefer; Craig G.

Charlestown

MA

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Stackments Claims KMC Draw, De

☐ 17. Document ID: US 4935877 A

L4: Entry 17 of 17

File: USPT

Jun 19, 1990

US-PAT-NO: 4935877

DOCUMENT-IDENTIFIER: US 4935877 A

Record List Display Page 8 of 8

TITLE: Non-linear genetic algorithms for solving problems

DATE-ISSUED: June 19, 1990

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Koza; John R.

Las Vegas

NV

89109

US-CL-CURRENT: <u>706/13</u>; <u>706/922</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	SOTERCE :	A STATE	nts Claims	KWIC	Drawu D
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	L3 :	and trav	eling a	idj sales	sman adj pr	oblen	n				17	

Display Format: - Change Format

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Go to Doc#

# **Refine Search**

#### Search Results -

Terms	Documents
L5 and visit\$4 and location\$2 and route and distance and time	4

US Pre-Grant Publication Full-Text Database

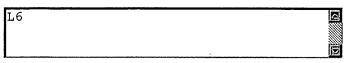
US Patents Full-Text Database

Database:

US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database

Derwent World Patents Index IBM Technical Disclosure Bulletins

Search:











#### **Search History**

DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name side by side		Hit Count S	Set Name result set
DB=Pc	$GPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD;\ PLUR=NO;\ OP=0$	=OR	
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

Record List Display Page 1 of 3

# **Hit List**

# Clear Concrete Collection Print Five Refs Elwd Refs Concrete OACS

**Search Results -** Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 4

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Shackleford, J. Barry Portola Valley CA US

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 2. Document ID: US 20030084011 A1

L6: Entry 2 of 4 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the <u>traveling salesman problem</u>

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Shetty, Ravindra K. Bangalore IN

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

Record List Display Page 2 of 3

☐ 3. Document ID: US 6363368 B1

L6: Entry 3 of 4

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well

as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Shinagawa; Akio

Kawasaki

JΡ

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Securities Etterminence Claims KMC Draw, De

☐ 4. Document ID: US 6052678 A

L6: Entry 4 of 4

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

\*\* See image for <u>Certificate of Correction</u> \*\*

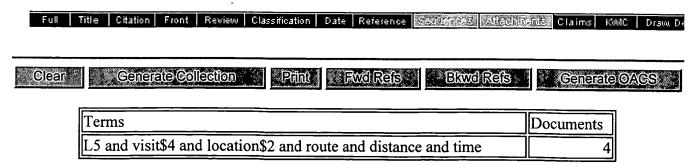
TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Itoh; Hiroyasu Kawasaki JΡ Shinagawa; Akio Kawasaki JΡ Nishimura; Toshihiro Kawasaki JP Okada; Hiroyuki Kawasaki JP Adachi; Nobue Kawasaki JΡ Ohi; Hajime Tokyo JΡ

US-CL-CURRENT: <u>706/13</u>; <u>706/20</u>, <u>706/45</u>



Display Format: - Change Format

Previous Page Next Page Go to Doc#

# **Refine Search**

#### Search Results -

Terms	Documents
L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

L7			Refine Search
	Recall Text 🔷	Clear	Interrupt

#### **Search History**

DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB=I	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=OR		
<u>L7</u>	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	<u>L7</u>
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

### **Hit List**



Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 6

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Shackleford, J. Barry

Portola Valley

CA

US

COUNTRY

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
					_							

☐ 2. Document ID: US 20030084011 A1

L7: Entry 2 of 6

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Shetty, Ravindra K.

Bangalore

COUNTRY

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

Record List Display Page 2 of 3

☐ 3. Document ID: US 20010011258 A1

L7: Entry 3 of 6 File: PGPB Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL

AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

SHINAGAWA, AKIO KAWASAKI-SHI JP

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims Ki	MC Draw, De

☐ 4. Document ID: US 6363368 B1

L7: Entry 4 of 6 File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well

as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Shinagawa; Akio Kawasaki JP

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Secure case Attention Claims KWIC Draw, De

☐ 5. Document ID: US 6327582 B1

L7: Entry 5 of 6 File: USPT Dec 4, 2001

US-PAT-NO: 6327582

DOCUMENT-IDENTIFIER: US 6327582 B1

TITLE: Method and system for genetic programming

DATE-ISSUED: December 4, 2001

Record List Display Page 3 of 3

INVENTOR-INFORMATION:

CITY NAME STATE ZIP CODE COUNTRY

Worzel; William P. Milan ΜI 48160

US-CL-CURRENT: 706/13



☐ 6. Document ID: US 6052678 A

L7: Entry 6 of 6 File: USPT Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

\*\* See image for Certificate of Correction \*\*

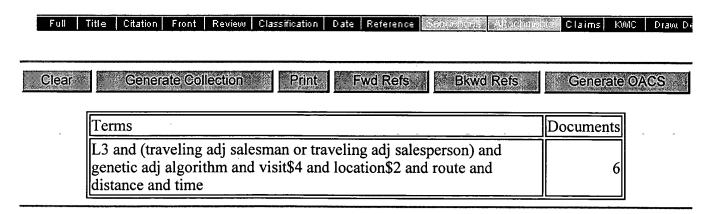
TITLE: Problem solving operation apparatus using a state transition

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Itoh; Hiroyasu Kawasaki JP Shinagawa; Akio Kawasaki JΡ Nishimura; Toshihiro Kawasaki JΡ Okada; Hiroyuki Kawasaki JΡ Adachi; Nobue Kawasaki JP Ohi; Hajime Tokyo JΡ

US-CL-CURRENT: 706/13; 706/20, 706/45



**Display Format:** Change Format

Previous Page **Next Page** Go to Doc# WEST Refine Search Page 1 of 2

# **Refine Search**

#### Search Results -

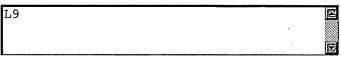
Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4	7
and location\$2 and route and distance and time and fitness and chromosomes	

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database

Database:

EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:











#### **Search History**

### DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB =	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=OR		
<u>L9</u>	(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	<u>L9</u>
<u>L8</u>	L7 and fitness and chromosomes	5	<u>L8</u>
<u>L7</u>	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	<u>L7</u>
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

WEST Refine Search Page 2 of 2

## **Hit List**

# Clear | Canarata Collection | Print | Fwd Rafs | Ekwil Rafs | Canarata OACS |

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20030093391 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 5

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093391

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093391 A1

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Shackleford, J. Barry

Portola Valley

CA

US

US-CL-CURRENT: 706/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
											• • • • • • • • • • • • • • • • • • • •	

☐ 2. Document ID: US 20030084011 A1

L8: Entry 2 of 5

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Shetty, Ravindra K.

Bangalore

IN

US-CL-CURRENT: <u>706/13</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

Record List Display Page 2 of 3

☐ 3. Document ID: US 20010011258 A1

L8: Entry 3 of 5 File: PGPB Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL

AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

SHINAGAWA, AKIO KAWASAKI-SHI JP

US-CL-CURRENT: 706/13

Ful	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC   Draw De
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☐ 4. Document ID: US 6363368 B1

L8: Entry 4 of 5

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well

as storage medium in which optimum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Shinagawa; Akio Kawasaki JP

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attechneris Claims KMC Draw, De

☐ 5. Document ID: US 6052678 A

L8: Entry 5 of 5 File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

\*\* See image for Certificate of Correction \*\*

TITLE: Problem solving operation apparatus using a state transition

Record List Display Page 3 of 3

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	on permise	Alteration	Claims	KWIC	Draws D
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Previous Page Next Page Go to Doc#

# **Refine Search**

#### Search Results -

Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

L9 			Refine Search
	Recall Text 👄	Clear	Interrupt

#### **Search History**

DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=OR		
<u>L9</u>	(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	<u>L9</u>
<u>L8</u>	L7 and fitness and chromosomes	5	<u>L8</u>
<u>L7</u>	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	<u>L7</u>
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
<u>L2</u>	760/13.ccls.	0	<u>L2</u>
<u>L1</u>	20030084011	2	<u>L1</u>

WEST Refine Search Page 2 of 2

## **Hit List**



**Search Results -** Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040102863 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 7

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040102863

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040102863 A1

TITLE: Method of determining movement sequence, alignment apparatus, method and apparatus of designing optical system, and medium in which program realizing the designing method

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Yoshida, Koji Kanagawa JΡ Ono, Isao JΡ Kanagawa Tatsuzawa, Yoshihiro Kanagawa JP JΡ Kobayashi, Shigenobu Tokyo

US-CL-CURRENT: 700/97

Full Title Citation Front Review Cla	ssification Date	Reference	Sequences	Attachments	Claims	KWC	Drawt De
☐ 2. Document ID: US 20030	)093391 A1						
L9: Entry 2 of 7	Fi	lle: PGP	В		May	15,	2003
PGPUB-DOCUMENT-NUMBER: 200300933	R <b>9</b> 1				-		•
PGPUB-FILING-TYPE: new							
DOCUMENT-IDENTIFIER: US 20030093	3391 A1						

TITLE: Combinatorial fitness function circuit

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Shackleford, J. Barry Portola Valley CA US Record List Display Page 2 of 4

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 3. Document ID: US 20030084011 A1

L9: Entry 3 of 7

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084011 A1

TITLE: Methods for solving the traveling salesman problem

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Shetty, Ravindra K.

Bangalore

IN

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 4. Document ID: US 20010053962 A1

L9: Entry 4 of 7

File: PGPB

Dec 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010053962

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010053962 A1

TITLE: Method of determining movement sequence, alignment apparatus, method and apparatus of designing optical system, and medium in which program realizing the designing method

designing method

PUBLICATION-DATE: December 20, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Yoshida, Koji Kanagawa JΡ Kiyohara, Junya JP Kanagawa Ono, Isao Kanagawa JP Tatsuzawa, Yoshihiro Kanagawa JP Kobayashi, Shigenobu Tokyo JΡ

US-CL-CURRENT: 702/123

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, De

☐ 5. Document ID: US 20010011258 A1

L9: Entry 5 of 7

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010011258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010011258 A1

TITLE: OPTIMUM SOLUTION SEARCH METHOD AND OPTIMUM SOLUTION SEARCH APPARATUS AS WELL

AS STORAGE MEDIUM IN WHICH OPTIMUM SOLUTION SEARCH PROGRAM IS STORED

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

SHINAGAWA, AKIO

KAWASAKI-SHI

JΡ

US-CL-CURRENT: <u>706/13</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawd De

☐ 6. Document ID: US 6363368 B1

L9: Entry 6 of 7

File: USPT

Mar 26, 2002

US-PAT-NO: 6363368

DOCUMENT-IDENTIFIER: US 6363368 B1

TITLE: Optimum solution search method and optimum solution search apparatus as well as storage medium in which optimum solution search program is stored

as storage medium in which opermum solution search program is stored

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Shinagawa; Akio

Kawasaki

JP

US-CL-CURRENT: 706/13

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

☐ 7. Document ID: US 6052678 A

L9: Entry 7 of 7

File: USPT

Apr 18, 2000

US-PAT-NO: 6052678

DOCUMENT-IDENTIFIER: US 6052678 A

\*\* See image for Certificate of Correction \*\*

TITLE: Problem solving operation apparatus using a state transition

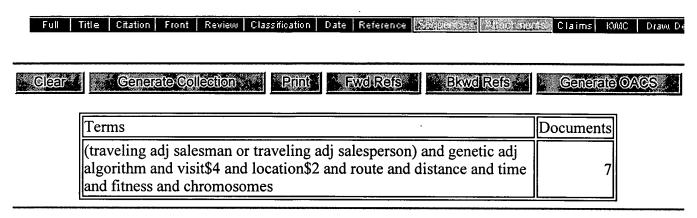
Record List Display Page 4 of 4

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Hiroyasu	Kawasaki			JP
Shinagawa; Akio	Kawasaki			JP
Nishimura; Toshihiro	Kawasaki			JP
Okada; Hiroyuki	Kawasaki			JP
Adachi; Nobue	Kawasaki			JP
Ohi; Hajime	Tokyo			JP

US-CL-CURRENT: 706/13; 706/20, 706/45



 Change Format Display Format: -

Previous Page Next Page Go to Doc# WEST Refine Search Page 1 of 2

# **Refine Search**

#### Search Results -

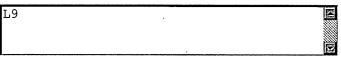
Terms	Documents
(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database

Database:

US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins

Search:











#### **Search History**

## DATE: Tuesday, July 27, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB =	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=OR		
<u>L9</u>	(traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time and fitness and chromosomes	7	<u>L9</u>
<u>L8</u>	L7 and fitness and chromosomes	5	<u>L8</u>
<u>L7</u>	L3 and (traveling adj salesman or traveling adj salesperson) and genetic adj algorithm and visit\$4 and location\$2 and route and distance and time	6	<u>L7</u>
<u>L6</u>	L5 and visit\$4 and location\$2 and route and distance and time	4	<u>L6</u>
<u>L5</u>	L4 and genetic adj algorithm	17	<u>L5</u>
<u>L4</u>	L3 and traveling adj salesman adj problem	17	<u>L4</u>
<u>L3</u>	706/13.ccls.	220	<u>L3</u>
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<u>L1</u>	20030084011	2	<u>L1</u>

WEST Refine Search Page 2 of 2